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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/633,587	08/05/2003	Yoon-Young Kim	1594.1286	4804
21171	7590 06/17/2004		EXAMINER	
STAAS & H. SUITE 700	ALSEY LLP		TAPOLCAI, V	VILLIAM E
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			3744	

DATE MAILED: 06/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Cumman.	10/633,587	KIM ET AL.			
Office Action Summary	Examiner	Art Unit			
	William E. Tapolcai	3744			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence ac	Idress		
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from t, cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this o D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
2a) ☐ This action is FINAL. 2b) ☑ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-35 is/are pending in the application					
4a) Of the above claim(s) is/are withdra	wn from consideration.				
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) <u>1-35</u> are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the I	Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).		
11) ☐ The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form P	ΓΟ-152.		
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document	s have been received.				
2. Certified copies of the priority document3. Copies of the certified copies of the priority	rity documents have been receive		Stage		
application from the International Burea					
* See the attached detailed Office action for a list	or the certified copies not receive	ea.			
Attachment(s)					
Notice of References Cited (PTO-892)	4) Interview Summary				
2)	Paper No(s)/Mail Da 5) Notice of Informal P		O-152)		
Paper No(s)/Mail Date	6) Other:	and the second of the	- · ,		

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1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-28, drawn to a refrigeration circuit having two evaporators and three expanding units, classified in class 62, subclass 504.
- Claims 29-30, drawn to a refrigeration circuit having two evaporators and two flow paths, classified in class 62, subclass 198.
- III. Claim 31, drawn to a refrigeration circuit having two expanding units of different inside diameters, classified in class 62, subclass 511.
- IV. Claims 32-33, drawn to a method of defrosting an evaporator and increasing the humidity level of a refrigerator compartment, classified in class 62, subclass 92.
- V. Claim 34, drawn to a method of defrosting an evaporator comprising operating a fan a preset time period after stopping the compressor, classified in class 62, subclass 89.
- VI. Claim 35, drawn to a refrigeration circuit having two flow paths and a control unit for selecting the flow paths using a timer, classified in class 62, subclass 231.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the

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particulars of the subcombination as claimed because the combination requires three expanding units. The subcombination has separate utility such as by itself, with only two expanding units.

- 3. Inventions IV and III are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process such as one that does not require increasing the humidity of the refrigerator compartment.
- 4. Inventions V and VI are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process such as one that does not require the compartment fan to run for a predetermined time after the compressor is stopped.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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6. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William E. Tapolcai whose telephone number is (703) 308-2640. The examiner can normally be reached on Mon. - Thurs., 6:30 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise L. Esquivel can be reached on (703) 308-2597. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William E. Tapolcai Primary Examiner Art Unit 3744

wet June 16, 2004